CLAIMS

1/ A transition between a waveguide and a microstrip line, characterized in that it consists of a bar (20) of synthetic material comprising a first part in which the lateral faces are metallized to form a waveguide (G) and a second part continuing the first part and forming a substrate for a microstrip line, said bar presenting, between the waveguide forming part and the substrate forming part, a shoulder (3) defining an upper plane (4) of the waveguide forming part and an upper plane (5) of the substrate forming part, and comprising between the two upper planes a rib (6) having a metallized base and walls, the metallization of the base continuing by the microstrip line (7) realized on the substrate, the base (8) common to the first and second parts being fully metallized.

2/ The transition according to claim 1, in which the base of the rib (6) has a linear profile.

3/ The transition according to claims 1 or 2, in which the second substrate forming part has a thickness that varies in a direction continuing the first part to modify the width of the microstrip line (7) by maintaining its characteristic impedance quasi-constant.

4/ The transition according to one of claims 1 to 3, in which the synthetic material is a dielectric foam.

5/ The transition according to claim 4, in which the foam is a polymethacrylate imide foam.